

REMARKS

Applicants respectfully traverse and request reconsideration.

Applicants wish to thank the Examiner for the notice that claims 18 and 19 are allowed and that claims 4-6 and 13-15 would be allowable if written in independent form.

The drawings are objected to with regard to FIG. 3 and portions of the Specification.

Applicants submit herewith a revised FIG. 3 and have amended the Specification accordingly. As such, Applicants respectfully submit that the objection be withdrawn.

The Specification has been objected to due to typographical errors. The typographical errors have been corrected.

Claims 1-3, 7-12, 16-17 and 20-21 stand rejected under 35 U.S.C. §103(a) as being unpatentable over Chang et al. in view of Watanabe et al. In the “Response to Arguments” section of the final action, it does not appear that Applicants’ arguments were fully understood and as such, Applicants will attempt to clarify the teachings of Watanabe as compared to the claimed subject matter. The office action admits that Chang fails to teach, among other things, filling only pixels in the portion of a primitive that is inside a screen region as set forth, for example, in claims 1-2, 9 and 20. Watanabe is allegedly cited as teaching this missing subject matter and in particular, paragraph 114 has been cited as allegedly teaching the subject matter. However, Applicants respectfully submit that the statement in Watanabe actually refers to a different technique, namely an “object” based technique which is prior art that is known which rasterizes complete objects on a per object basis and not on a partial object basis as claimed. As specifically stated in Watanabe, “only the objects included in the view volume are selected” (emphasis added). As the statement indicates, if an object is to be rasterized based on the rough clipping operation, the detailed clipping operation rasterizes complete objects that were designated by the rough clipping

operation. These are well known techniques as noted in Applicants' "Background of the Invention" section and are per object based rasterization techniques.

In contrast, Applicants claim a partial object based rasterization technique wherein as claimed, only pixels that are in the portion of a primitive that is inside the screen region are filled. Such partial filling of a primitive is not disclosed in the Watanabe reference. As claimed, for example, pixels of the primitive that lie outside the region and within a primitive are not filled in, unlike the technique taught in Watanabe. Other advantages will be recognized by those of ordinary skill in the art. As such, Applicants respectfully submit that these claims are in condition for allowance.

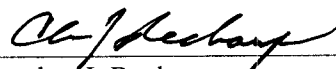
Regarding claims 10-12 and 16-17, Applicants respectfully reassert the relevant remarks made above and as such, these claims are also in condition for allowance.

Also, the dependent claims add additional novel and non-obvious subject matter.

Applicants respectfully submit that the claims are in condition for allowance and that a timely Notice of Allowance be issued in this case. The Examiner is invited to contact the below-listed attorney if the Examiner believes that a telephone conference will advance the prosecution of this application. Also, the below attorney can meet in person with the Examiner on June 5, 2006, or June 7, 2006, if the Examiner would like to do so.

Respectfully submitted,

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